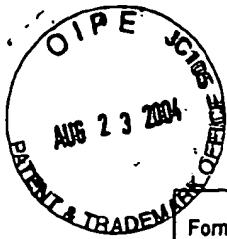




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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095			
		Applicant: Talish et al.				
		Filing Date: October 25, 2001	Group Art Unit 3737			
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial	Patent Number	Date	Patentee	Class	Subclass	
KM	32,782	11/15/88	Pratt, Jr.			
	34,959	05/30/95	Potts			
	3,134,451	05/26/64	Hanssen			
	3,193,034	07/06/65	Hutchinson, et al.			
	3,310,049	03/21/67	Clynes			
	3,433,663	03/18/69	Underwood			
	3,499,437	03/10/70	Balamuth			
	3,550,586	12/29/70	Balamuth			
	3,594,993	07/27/71	Heyse			
	3,701,352	10/31/72	Bosworth			
	3,760,799	09/25/73	Crowson			
	3,767,195	10/23/73	Dimick			
	3,828,769	08/13/74	Mettler			
	3,855,638	12/24/74	Pilliar			
	3,961,380	06/08/76	Garr			
	3,986,212	10/19/76	Sauer			
	4,105,017	08/08/78	Ryaby et al.			
	4,127,125	11/28/78	Takemoto et al.			
	4,164,794	08/21/79	Spector, et al.			
	4,170,045	10/09/79	Estes			
	4,176,664	12/04/79	Talish			
	4,206,516	06/10/80	Pilliar			
	4,216,766	08/12/80	Duykers, et al.			
	4,227,111	10/07/80	Cross, et al.			
	4,233,477	11/11/80	Rice, et al.			
	4,269,797	05/26/81	Mikiya, et al.			
	4,296,753	10/27/81	Goudin			
	4,312,536	01/26/82	Lloyd			
	4,315,503	12/16/82	Ryaby et al.			
	4,351,069	09/28/82	Ballintyn, et al.			
	4,355,428	10/26/82	Deloison, et al.			
	4,358,105	11/09/82	Sweeney, Jr.			
	4,361,154	11/30/82	Pratt, Jr.			
	4,365,359	12/28/82	Raab			
	4,383,533	05/17/83	Bhagat et al.			
	4,421,119	12/20/83	Pratt, Jr.			
	4,440,025	04/03/84	Hayakawa, et al.			
KM	4,441,486	04/10/84	Pounds			
Examiner:	<i>Karen Chan</i>		Date Considered:	<i>3/21/05</i>		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						

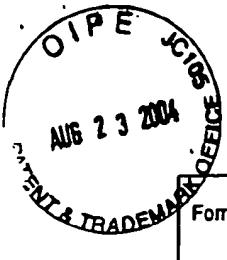


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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095
Applicant: Talish et al.			
Filing Date: October 25, 2001		Group Art Unit 3737	
<b>U.S. PATENT DOCUMENTS</b>			
Examiner Initial	Patent Number	Date	Patentee
KAC	4,446,586	05/08/84	Reed et al.
	4,452,326	06/05/84	Hanssen, et al.
	4,511,921	04/16/85	Harlan et al.
	4,530,360	07/23/85	Duarte
	4,536,894	08/27/85	Galante, et al.
	4,542,539	09/24/85	Rowe, Jr., et al.
	4,542,744	09/24/85	Barnes et al.
	4,550,714	11/85	Talish
	4,556,066	12/03/85	Semrow
	4,570,640	02/18/86	Barsa
	4,573,996	03/04/86	Kwiatek, et al.
	4,594,662	06/10/86	Devaney
	4,612,160	09/16/86	Donlevy, et al.
	4,627,429	12/09/86	Tsuk
	4,630,323	12/23/86	Sage et al.
	4,644,942	02/24/87	Sump
	4,677,438	06/30/87	Michiguchi et al
	4,687,195	08/18/87	Potts
	4,708,127	11/24/87	Abdelghani
	4,710,655	12/01/87	Masaki
	4,770,184	09/13/88	Greene, Jr. et al.
	4,726,099	02/23/88	Card
	4,763,661	08/16/88	Sommer et al.
	4,774,959	10/04/88	Palmer et al.
	4,782,822	11/08/88	Ricken
	4,787,070	11/22/88	Suzuki et al.
	4,787,888	11/29/88	Fox
	4,792,336	12/20/88	Hlavacek, et al.
	4,802,477	02/07/89	Gabbay
	4,830,015	05/16/89	Okazaki
	4,836,316	06/06/89	Carnevale, et al.
	4,855,911	08/08/89	Lele et al.
	4,858,599	08/22/89	Halpern
	4,867,169	09/19/89	Machida et al.
KAC	4,891,849	01/09/90	Robinson
KAC	4,905,671	03/06/90	Senge et al.
Examiner:	Date Considered: 3/2/05		
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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Docket No.: 41482-205545		Application No. 10/029,095	
		Applicant: Talish et al.			
		Filing Date: October 25, 2001		Group Art Unit 3737	
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initial	Patent Number	Date	Patentee	Class	Subclass
	4,913,157	04/03/90	Pratt, Jr. et al.		
	4,917,092	04/17/90	Todd, et al.		
	4,926,870	05/22/90	Brandenburger		
	4,932,951	06/12/90	Liboff et al.		
	4,933,230	06/12/90	Card, et al.		
	4,936,303	06/26/90	Detwiler et al.		
	4,941,474	07/17/90	Pratt, Jr.		
	4,947,853	08/14/90	Hon		
	4,979,501	12/25/90	Valchanov et al.		
	4,982,730	01/08/91	Lewis, Jr.		
	4,986,275	01/22/91	Ishida et al.		
	4,993,413	02/19/91	McLeod et al.		
	4,995,883	02/26/91	Demane, et al.		
	5,000,183	03/19/91	Bonnefous		
	5,000,442	03/19/91	Dalebout, et al.		
	5,003,965	04/02/91	Talish et al.		
	5,004,476	04/02/91	Cook		
	5,016,641	05/21/91	Schwartz		
	5,018,285	05/28/91	Zolman, et al.		
	5,046,484	09/10/91	Bassett, et al.		
	5,054,490	10/08/91	Roszman et al.		
	5,067,940	11/26/91	Liboff et al.		
	5,080,672	01/14/92	Bellis		
	5,088,976	02/18/92	Liboff et al.		
	5,099,702	03/31/92	French		
	5,100,373	03/31/92	Liboff et al.		
	5,103,806	04/14/92	McLeod et al.		
	5,106,361	04/21/92	Liboff et al.		
	5,107,853	04/28/92	Plyter		
	5,108,452	04/28/92	Fallin		
	5,133,420	07/28/92	Smith		
	5,134,999	08/04/92	Osipov		
	5,139,498	08/18/92	Astudillo Ley		
	5,140,988	08/25/92	Stouffer et al.		
	5,143,069	09/01/92	Kwon et al.		
	5,143,073	09/92	Dory		
	5,163,598	11/17/92	Peters, et al.		
	5,172,692	12/22/92	Kulow et al.		
	5,178,134	01/12/93	Vago		
Examiner: <i>Korei Ch</i>		Date Considered: 3/2/05			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					



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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095			
		Applicant: Talish et al.				
		Filing Date: October 25, 2001	Group Art Unit 3737			
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial		Patent Number	Date	Patentee	Class	Subclass
<i>JAC</i>		5,184,605	02/09/93	Grzeszykowski		
		5,186,162	02/16/93	Talish et al.		
		5,191,880	03/09/93	McLeod et al.		
		5,197,475	03/30/93	Antich et al.		
		5,201,766	04/13/93	Georgette		
		5,209,221	05/11/93	Riedlinger		
		5,211,160	05/18/93	Talish et al.		
		5,230,334	07/27/93	Klopotek		
		5,230,345	07/27/93	Curran, et al.		
		5,230,921	07/27/93	Waltonen, et al.		
		5,235,981	08/17/93	Hascoet et al.		
		5,259,384	11/09/93	Kaufman et al.		
		5,269,306	12/14/93	Warnking, et al.		
		5,273,028	12/28/93	McLeod, et al.		
		5,284,143	02/08/94	Rattner		
		5,285,788	02/15/94	Arenson et al.		
		5,295,931	03/22/94	Dreibelbis, et al.		
		5,301,683	04/12/94	Durkan		
		5,309,898	05/10/94	Kaufman et al.		
		5,310,408	05/10/94	Schryver, et al.		
		5,314,401	05/24/94	Tepper		
		5,316,000	05/31/94	Chapelon, et al.		
		5,318,561	06/07/94	McLeod et al.		
		5,318,779	06/07/94	Hakamatsuka, et al.		
		5,322,067	06/21/94	Prater et al.		
		5,323,769	06/28/94	Bommannan, et al.		
		5,327,890	07/12/94	Matura et al.		
		5,330,481	07/19/94	Hood, et al.		
		5,330,489	07/19/94	Green, et al.		
		5,334,214	08/02/94	Putnam		
		5,339,804	08/23/94	Kemp		
		5,340,510	08/23/94	Bowen		
		5,351,389	10/04/94	Erickson et al.		
		5,363,850	11/15/94	Soni et al.		
		5,366,465	11/22/94	Mirza		
		5,367,500	11/22/94	Ng		
		5,376,065	12/27/94	McLeod et al.		
<i>JAC</i>		5,380,269	01/10/95	Urso		
<i>JAC</i>		5,386,830	02/07/95	Powers et al.		
Examiner: <i>Konie Ch</i>		Date Considered: <i>3/2/05</i>				
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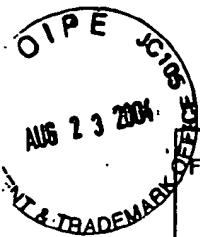
Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: <b>41482-205545</b>	Application No. <b>10/029,095</b>
		Applicant: <b>Talish et al.</b>	
		Filing Date: <b>October 25, 2001</b>	Group Art Unit <b>3737</b>
<b>U.S. PATENT DOCUMENTS</b>			
Examiner Initial	Patent Number	Date	Patentee
<i>Kuz</i>	5,393,296	02/28/95	Rattner
	5,394,878	03/07/95	Frazin et al.
	5,398,290	03/14/95	Brethour
	5,400,795	03/28/95	Murphy, et al.
	5,405,389	04/11/95	Conta, et al.
	5,409,446	04/25/95	Rattner
	5,413,550	05/09/95	Castel
	5,415,167	05/16/95	Wilk
	5,417,215	05/23/95	Evans et al.
	5,431,612	07/11/95	Holden
	5,434,827	07/18/95	Bolorforosh
	5,441,051	08/15/95	Hileman et al
	5,441,058	08/15/95	Fareed
	5,448,994	09/12/95	Iinuma
	5,460,595	10/24/95	Hall, et al.
	5,466,215	11/14/95	Lair, et al.
	5,468,220	11/21/95	Sucher
	5,476,438	12/19/95	Edrich, et al.
	5,478,306	12/26/95	Stoner
	5,492,525	02/20/96	Gibney
	5,495,846	03/05/96	Uehara et al.
	5,496,256	03/05/96	Bock et al.
	5,501,657	03/26/96	Feero
	5,507,800	04/16/96	Strickland
	5,507,830	04/16/96	DeMane, et al.
	5,509,933	04/23/96	Davidson, et al.
	5,520,612	05/28/96	Winder et al.
	5,524,624	06/11/96	Tepper, et al.
	5,526,815	06/18/96	Granz, et al.
	5,541,489	07/30/96	Dunstan
	5,547,459	08/20/96	Kaufman et al.
	5,556,372	09/17/96	Talish et al.
	5,578,060	11/26/96	Pohl et al.
	5,615,466	04/01/97	Safari, et al.
	5,626,554	05/06/97	Ryaby, et al.
	5,630,837	05/20/97	Crowley
	5,648,941	07/15/97	King
<i>ATL</i>	5,656,016	08/12/97	Ogden
<i>ATL</i>	5,680,863	10/28/97	Hossack, et al.
Examiner:	Date Considered: <i>3/2/05</i>		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			



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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095				
		Applicant: Talish et al.					
		Filing Date: October 25, 2001	Group Art Unit 3737				
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Patent Number	Date	Patentee	Class	Subclass	
	KAZ	5,690,608	11/25/97	Watanabe, et al.			
		5,691,960	11/25/97	Gentilman, et al.			
		5,699,803	12/23/97	Carodiskey			
		5,702,353	12/30/97	Guzzini, et al.			
		5,702,389	12/30/97	Taylor, et al.			
		5,706,818	01/13/98	Gondo			
		5,708,236	01/13/98	Shaanan, et al.			
		5,721,400	02/24/98	Haraldsson, et al.			
		5,725,482	03/10/98	Bishop			
		5,728,095	03/17/98	Taylor et al.			
		5,730,705	03/24/98	Talish, et al.			
		5,738,625	04/14/98	Gluck			
		5,741,317	04/21/98	Ostrow			
		5,743,862	04/28/98	Izumi			
		5,755,746	05/26/98	Lifshey, et al.			
		5,762,616	06/09/98	Talish			
		5,779,600	07/14/98	Pape			
		5,785,656	07/28/98	Chiabrera, et al.			
		5,818,149	10/06/98	Safari et al.			
		5,829,437	11/03/98	Bridges			
		5,868,649	02/09/99	Erickson, et al.			
		5,871,446	02/16/99	Wilk			
		5,886,302	03/23/99	Germanton, et al.			
		5,891,143	04/06/99	Taylor et al.			
		5,904,659	05/18/99	Duarte, et al.			
		5,957,814	09/28/99	Eschenbach			
		5,971,984	10/26/99	Taylor et al.			
		5,997,490	12/07/99	McLeod, et al.			
		6,019,710	02/01/00	Dalebout, et al.			
		6,030,386	02/29/00	Taylor et al.			
		6,080,088	06/27/00	Petersen, et al.			
		6,086,078	07/11/00	Ferez			
		6,093,135	07/25/00	Huang			
		6,165,144	12/26/00	Talish, et al.			
		6,206,843	03/2001	Iger, et al.			
		6,213,958	04/10/01	Winder			
		6,261,249	07/17/01	Talish, et al.			
		6,273,864	08/14/01	Duarte			
Examiner: <i>Lorich</i>		Date Considered: <i>3/21/05</i>					

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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095				
		Applicant: Talish et al.					
		Filing Date: October 25, 2001	Group Art Unit 3737				
NON-US DOCUMENTS							
Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation
<i>KAC</i>		2156983A	10/16/85	UK			
		0 181 506 A2	05/21/86	Europe			
		SHO 62[1987]-47359	03/02/87	JAPAN			
		DE 3639263 A1	06/25/87	Germany			
		WO 88/00845	02/11/88	PCT			
		WO 88/02250	04/07/88	PCT			
		331 348 A1	09/06/89	Europe			
	**	Patent Abstracts vol. 013, n. 541 (E-854)	12/05/89	Japan			
		WO 90/06720	06/28/90	PCT			
	**	HEI 4[1992]-82567	03/16/92	JAPAN			
		HEI 4[1992]-82568	03/16/92	JAPAN			
		HEI 4[1992]-82569	03/16/92	JAPAN			
		0 536 875 A1	04/14/93	Europe			
		HEI 5[1993]-269159	10/19/93	JAPAN			
		1,328,485	04/12/94	CA			
		WO 94/13411	06/23/94	PCT			
		2277448A	11/02/94	UK			
		WO 95/03744	02/09/95	PCT			
		0 679 371 A1	11/02/95	Europe			
		WO 95/33416	12/14/95	PCT			
		EP 0 695 559	02/07/96	Europe			
		WO 96/25112	08/22/96	PCT			
		WO 96/25888	08/29/96	PCT			
		DE 19613425	01/16/97	Germany			
		2 303 552 A	02/26/97	UK			
		WO 97/33649	09/18/97	PCT			
		WO 98/10729	03/19/98	PCT			
		WO 98/34578	08/13/98	PCT			
		WO 98/47570	10/29/98	PCT			
		WO 99/18876	04/22/99	PCT			
		WO 99/22652	05/14/99	PCT			
		WO 99/48621	09/30/99	PCT			
		WO 99/56829	11/11/99	PCT			
		WO 00/28925	05/25/00	PCT			
		WO 00/71207	11/30/00	PCT			
Examiner:			Date Considered: <i>3/2/05</i>				
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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095
		Applicant: Talish et al.	
		Filing Date: October 25, 2001	Group Art Unit 3737
<b>OTHER MATERIAL</b>			
Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.		
KAZ	ABSTRACT, (Proceedings of the 11 <sup>th</sup> Int'l. Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.		
	ABSTRACT, (Proceedings of the III Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.		
	ABSTRACT, (Proceedings of the IV Brazilian Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.		
	ASTM Designation: D790M-93 Metric, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993).		
	ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, " pp.324-330.(Feb. 1991)		
	7Brochure: "The Science Behind the Technology," distributed by Smith & Nephew for EXOGEN. (no date)		
	Aral et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 17, 1993.		
	Berndige, M.J., "Inositol Trisphosphate and Calcium Signaling", <i>Nature</i> (1993), 361: 315-325.		
"	Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", <i>JASA</i> (1969), 47(2): 649-653.		
KAZ	Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", <i>Arch. Orthop. Trauma Surg</i> (1983), 101: 153-159.		
	Dyson, M., "Therapeutic Applications of Ultrasound", <i>Biological Effects of Ultrasound</i> (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.		
	Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", <i>J. Bone and Joint Surg.</i> (1985), 67-B(4): 650-655.		
KAZ	Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Ultrasound", <i>J. Bone and Joint Surg.</i> (1994), 76-A(1): 26-34.		
"	Hill, G.R., "Ultrasonic Exposure Thresholds for Changes In Cells and Tissues", <i>JASA</i> (1972), 52(2): 667-672.		
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Sheet 9 of 10

Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.:  41482-205545	Application No.  10/029,095
		Applicant:  Talish et al.	
		Filing Date:  October 25, 2001	Group Art Unit  3737
<b>OTHER MATERIAL</b>			
Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.		
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Examiner:	Frances Clark	Date Considered:	3/2/05
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			



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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: 41482-205545	Application No. 10/029,095
Applicant: Talish et al.			
Filing Date: October 25, 2001		Group Art Unit 3737	
<b>OTHER MATERIALS</b>			
Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.		
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<i>JAR</i>	Ultrasound as a Tool for Investigating Bone: Fundamental Principles and Perspectives for Use in Osteoporosis, by J. G. Bloch, 1993, Expansion Scientifique Francaise		
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/029,095
		Filing Date	October 25, 2001
		First Named Inventor	Talish, et al.
		Group Art Unit	3737
		Examiner Name	
(use as many sheets as necessary)		Attorney Docket Number	41482-205545
Sheet	1	of	2

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

\*For English version see related Australian Application No. 19950292

Examiner Signature	Louis Cha	Date Considered	3/2/05
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**Complete If Known**

Application Number	10/029,095
Filing Date	October 25, 2001
First Named Inventor	Talish, et al.
Group Art Unit	3737
Examiner Name	

Attorney Docket Number 41482-205545

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
HAC		Pethica, B.A., et al., Abstract, Biological Repair and Growth Society, June 1998.	
		Goodship, et al., "Low magnitude high frequency mechanical stimulation of endochondral bone repair" 43 <sup>rd</sup> Annual Meeting Orthopaedic Research Society, vol. 22, Sec. 1, Feb. 9-13 (1997)	
		Y. Qin, et al., "Correlation of In Vivo Bone Adaptation and Mechanical Parameters Using Low Magnitude, High Frequency Loading," 41 <sup>st</sup> Annual Meeting Orthopaedic Research Soc., vol. 20 – Sec. 1, Feb. 13-16 (1995)	
		Grawe, et al., "Acoustic Properties of Particle Polymer Composite for Ultrasonic Transducer Backing Applications," IEEE, (1990)	
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HAC		Niemczewski, B., "A Comparison of Ultrasonic Cavitation Intensity in Liquids," Ultrasonics, May 1980, pp. 107-110.	

Examiner Signature

*Karin Chen*

Date Considered

*3/2/05*

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## **NON U.S. DOCUMENTS**

## **OTHER MATERIAL**

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Examiner: Jin Chin Date Considered: 8/20/03 **RECEIVED**  
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